

In the Claims:

Applicants elect to continue prosecution with claims 1 to 14 drawn to the Group I invention. Please cancel claims 15 to 21 without prejudice.

1.(previously presented) Aluminum-free borosilicate glass with chemical resistance and having a composition, in percent by weight, based on oxide content, of:

SiO₂ 60 - 78

B₂O₃ 7 - 20

Li₂O 0 - 2

Na₂O 0 - 4

K₂O 3 - 12

MgO 0 - 2

CaO 0 - 2

with MgO + CaO 0 - 3

BaO 0 - 3

ZnO 0 - 2

ZrO₂ 0.8 - 12

TiO₂ 0 - 10

CeO₂ 0 - 1

F 0 - 0.6

and optionally at least one refining agent in a standard amount for refining.

2. (previously presented) Aluminum-free borosilicate glass as defined in claim 1, characterized by a composition, in percent by weight, based on oxide content, of:

SiO_2 67 - 75

B_2O_3 9 - 18

Li_2O 0 - 1

Na_2O 0 - 3

K_2O 5 - 10

with $\text{Li}_2\text{O} + \text{Na}_2\text{O} + \text{K}_2\text{O}$ 5.5 - 13.5

CaO 0 - 1

BaO 0 - 1

ZnO 0 - 1

TiO_2 0 - 1

ZrO_2 0.8 - 10.5

CeO_2 0 - 0.4

F^- 0 - 0.6

and optionally at least one refining agent in a standard amount for refining.

3.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, characterized by a composition, in percent by weight, based on oxide content, of:

SiO_2 68 - 74

B_2O_3 9 - 13

Li_2O 0 - 1

Na_2O 0 - 3

K₂O 5 - 10

with Li₂O + Na₂O + K₂O 5.5 - 13.5

ZrO₂ 3 - 7

CeO₂ 0 - 0.4

F⁻ 0 - 0.6

and optionally at least one refining agent in a standard amount for refining.

4.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, characterized by a composition, in percent by weight, based on oxide content, of:

SiO₂ 71 - 74

B₂O₃ 9 - 12

Li₂O 0 - 1

Na₂O 0 - 3

K₂O 7 - 10

with Li₂O + Na₂O + K₂O 7 - 13.5

ZrO₂ 4 - 7,

and optionally at least one refining agent in a standard amount for refining.

5.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, characterized by a composition, in percent by weight, based on oxide content, of:

SiO₂ 63 - 71

B₂O₃ 8 - 11

Li₂O 0 - 1

Na₂O 0 - 3

K₂O 8 - 11

with Li₂O + Na₂O + K₂O 8 - 13.5

ZrO₂ 7.5 - 10.5

and optionally at least one refining agent in a standard amount for refining.

6.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, characterized by a composition, in percent by weight, based on oxide content, of:

SiO₂ 70 - 75

B₂O₃ 15 - 18

Li₂O 0 - 1

Na₂O 0 - 3

K₂O 5 - 8

with Li₂O + Na₂O + K₂O 5.5 - 10.5

CaO 0 - 1

BaO 0 - 1

TiO₂ 0 - 1

ZrO₂ 0.8 - 5

and optionally at least one refining agent in a standard amount for refining.

7.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, characterized by a composition, in percent by weight, based on oxide content, of:

SiO₂ 67 - 70

B₂O₃ 15 - 18

Li₂O 0 - 1

Na₂O 0 - 3

K₂O 7 - 10

with Li₂O + Na₂O + K₂O 7 - 12.5

ZnO 0 - 1

ZrO₂ 2.5 - 6

and optionally at least one refining agent in a standard amount for refining.

8.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, characterized by a composition, in percent by weight, based on oxide content, of:

SiO₂ 74 - 78

B₂O₃ 12 - 15

Li₂O 0 - 1

Na₂O 0 - 3

K₂O 3 - 8

with Li₂O + Na₂O + K₂O 3 - 11

ZnO 0 - 1

ZrO₂ 2.5 - 7

and optionally at least one refining agent in a standard amount for refining.

9.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, and containing at least 0.2 percent by weight of said Li₂O.

10.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, and containing at least 0.3 percent by weight of said Na_2O .

11.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, and containing at least 0.5 percent by weight of said Na_2O .

12.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, and containing at least 0.2 percent by weight of said Li_2O and at least 0.3 percent by weight of said Na_2O .

13.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, free of As_2O_3 and Sb_2O_3 apart from inevitable impurities thereof.

14.(previously presented) Aluminum-free borosilicate glass as defined in claim 1, having a coefficient of thermal expansion α (20°C; 300°C) of between 3.0×10^{-6} /K and 6×10^{-6} /K and a working point V_A of between 990°C and 1290°C.

Claims 15 to 21 (canceled).